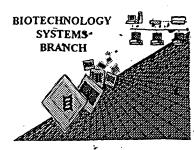
1009

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/835996

Source:

Date Processed by STIC:

10/16/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-421-PATENTIN 2.1 e-mail help: <u>patin21help@uspto.gov</u> or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: <u>patin3help@uspto.gov</u> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

| ERROR DETECTED | SUGGESTED CORRECTION SERIAL NUMBER: 09/835 996 . |
|-------------------------------------|--|
| ATTN: NEW RULES CASE | S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PI |
| IWrapped Nucleics Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping." |
| 2Invalid Line Length | The rules require that a line not exceed 72 characters in length. This includes white spaces. |
| 3Misaligned Amino Numbering | The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead. |
| 4Non-ASCII | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text. |
| SVariable Length | Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. |
| 6Patentin 2.0 "bug" | A "bug" in Patentin version 2.0 has coused the <220>-<223> section to be missing from amino acid sequences(s) |
| 7Skipped Sequences (OLD RULES) | Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped |
| | Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences. |
| Skipped Sequences (NEW RULES) | Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000 |
| 9Use of n's or Xaa's (NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents |
| 10Invalid <213> Response | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown is Artificial Sequence |
| 110r <220> | Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules) |
| Patentin 2.0 "bug" | Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. |
| 13Misuse of n | n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide. |

AMC/MH - Biotechnology Systems Branch - 08/21/2001

OIPE

```
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               Loeb, Debra
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               Montgomery, Julie
      6
               Tang, Y. Tom
      7
               Zhou, Ping
      8
               Goodrich, Ryle
      9
               Liu, Chenghua
     10
               Asundi, Vinod
     11
               Zhao, Qing
     12
               Wehrman, Tom
               Drmanac, Radoje
     13
               Ren, Feiyan
     14
     15
               Qian, Xiahong
               Wang, Dunrui
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     18 <120> TITLE OF INVENTION: MATERIALS AND METHODS RELATING TO LIPID METABOLISM
     20 <130> FILE REFERENCE: 28110/35915A
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     29 <151> PRIOR FILING DATE: 2000-09-22
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     32 <151> PRIOR FILING DATE: 2000-08-03
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                                                Errored Unknown must be Eumerated.

m Fredds 221, 222 and 223.

m Fredds 221, 222 and 223.

- Pranse or Relet 222 does not represented.

- Pranse or File unknown we presented.
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     52 <222> LOCATION: (46)..(1143)
     53 <223> OTHER INFORMATION: n a or c or g or t
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                                                                                     57
     58
                                                               Met Ala Ser Met
     59
     61 gct gcc gtg ctc acc tgg gct ctg gct ctt ctt tca gcg ttt tcg gcc
                                                                                    105
     62 Ala Ala Val Leu Thr Trp Ala Leu Ala Leu Leu Ser Ala Phe Ser Ala
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/835,996

Input Set : A:\35915a.seq.txt

DATE: 10/16/2001

TIME: 15:43:12

Input Set : A:\35915a.seq.txt

Output Set: N:\CRF3\10162001\1835996.raw

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| 63 | | | | | | 10 | | | | | 15 | | | | | 20 | 455 |
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| | Thr | Gln | Ala | Arg | | Gly | Phe | Trp | Asp | | Phe | ser | GIn | Thr | | GIA | |
| 67 | | | | | 25 | | | | | 30 | | | | | 35 | | |
| | _ | | | agg | | | | | | | | | | | | | 201 |
| 70 | Asp | Lys | Gly | Arg | Val | Glu | Gln | Ile | His | Gln | Gln | Lys | Met | Ala | Arg | Glu | |
| 71 | | | | 40 | | | | | 45 | | | | | 50 | | | |
| 73 | CCC | gcg | acc | ctg | aaa | gac | agc | ctt | gag | caa | gac | ctc | aac | aat | atg | aac | 249 |
| 74 | Pro | Ala | Thr | Leu | Lys | Asp | Ser | Leu | Glu | Gln | Asp | Leu | Asn | Asn | Met | Asn | |
| 75 | | | 55 | | | | | 60 | | | | | 65 | | | | |
| 77 | aaq | ttc | ctq | gaa | aaq | ctg | agg | cct | ctq | agt | qqq | agc | gag | gct | cct | cgg | 297 |
| | _ | | | Ğlu | | | | | | | | | | | | | |
| 79 | _1 - | 70 | | | _ | | 75 | | | | - | 80 | | | | - | |
| | ctc | | cag | gac | cca | ata | aac | ato | caa | caa | caq | cta | caq | gag | σασ | tta | 345 |
| | | | | Asp | | | | | | | | | | | | | |
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| | | σασ | ata | aag | act | | ctc | cac | ccc | tac | | αca | ααα | aca | cac | | 393 |
| | | | | Lys | _ | - | | _ | | | _ | _ | | - | | | 333 |
| | GLU | GIU | Val | цуз | 105 | ATY | цец | GIII | FIU | 110 | Mec | пла | Gru | nia | 115 | Giu | |
| 87 | | | ~~~ | + | | ++~ | ~~~ | ~~~ | ++~ | | ~~~ | | a+ a | 226 | | + > a | 441 |
| | _ | | _ | tgg | | | | | | | | | | | | | 441 |
| | ьeu | vaı | GTĀ | Trp | ASN | Leu | GIU | GTĀ | | Arg | GIII | GIII | ьeu | | PIO | TAL | |
| 91 | | | | 120 | | | | | 125 | | | | | 130 | | | 400 |
| | | | | ctg | | | | | | | | | | | | | 489 |
| | Thr | Met | _ | Leu | Met | Glu | Gln | | Ala | Leu | Arg | Val | | Glu | Leu | Gln | |
| 95 | | | 135 | | | | | 140 | | | | | 145 | | | | |
| | | | | cgc | | | | | | | | | | | | | 537 |
| 98 | Glu | Gln | Leu | Arg | Val | Val | Gly | Glu | Asp | Thr | Lys | | Gln | Leu | Leu | Gly | |
| 99 | | 150 | | | | | 155 | | | | | 160 | | | | | |
| 101 | gg | gt | g gad | gag | r gct | : tgg | g gct | : ttg | r ctg | cag | g gga | a ct | g cag | gago | c cg | gtg | 585 |
| ,102 | ? Gl | y Val | l Ası | o Glu | Ala | Trp | Ala | Leu | ı Leı | ı Glr | n Gly | y Let | ı Glı | n Sei | r Arg | y Val | |
| 103 | 3 165 | 5 | | | | 170 |) | | | | 175 | 5 | | | | 180 | |
| 105 | gt | g cad | cac | c acc | ggc | cgc | tto | aaa | gag | , cto | c tto | cad | c cca | a tac | gc | gag | 633 |
| 106 | Val | l His | s His | s Thr | . Gl ⁷ | Arg | j Phe | Lys | Glu | ı Let | ı Phe | e His | s Pro | о Туг | : Ala | a Glu | |
| 107 | 7 | | | | 185 | õ | | | | 190 |) | | | | 19 | 5 | |
| 109 | ago | cte | ggt | gago | ggo | ato | ggg | g cgc | cac | gtg | gcag | g gag | g ct | g cad | c cg | agt | 681 |
| | | | | | | | | | | | | | | | | g Ser | |
| 111 | | | | 200 | | • | _ | _ | 205 | | | | | 210 | | - | |
| | | a act | c cc | r cac | acc | ccc | gee | ago | ccc | e acc | a cad | cto | aq1 | t cac | c tac | gtg | 729 |
| | | | | | | | | | | | | | | | | s Val | |
| 115 | | | 21 | | | | | 220 | | | | , | 22 | | , -1. | | |
| | | r ata | | | · cac | 1 220 | ı ctc | | | | י מכי | | | | T Ca | c gca | 777 |
| | | | | | | | | | | | | | | | | s Ala | , , , |
| 119 | | 230 | | a DCI | . AL | , LIY | 235 | | . 1100 | . шy. | , LILC | 240 | | 1 1100 | | , nra | |
| | | | | | | · a+a | | | | | | | | a 200 | , ,,,,,, | | 825 |
| | | | | | | | | | | | | | | | | gcc | 023 |
| | 2 Arg | - | = GI | 1 611 | ı ASI | | _ | , GTI | тые (| 1 WIG | - | | и пе | ושכ ע | . AL | Ala 260 | |
| | | | | | | 250 | | | | | 255 | | | | | | 077 |
| | | | | | | | | | | | | | | | | gatg | 873 |
| | | ≥ Ala | a GI | y Thr | _ | | GIL | ı Glu | ı GIŞ | | | y Pro | O AS | b Pro | | n Met | |
| 127 | , | | | | 265 |) | | | | 270 |) | | | | 27 | > | |

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Output Set: N:\CRF3\10162001\1835996.raw

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| | | | | | | | _ | _ | - | | _ | _ | | - | _ | gac | | 921 | |
| | 131 | Leu | ser | GIU | 280 | vai | Arg | GIN | Arg | ьец 285 | GIN | Ата | Pne | Arg | 290 | Asp | Thr | | |
| | | +20 | ata | ~ 3~ | | aat | ~~~ | ++~ | aat | | ~~~ | ata | a a a | ~~~ | | act | a a a | 969 | |
| | | | | | | | | | | | | | | | | Thr | | 707 | |
| | 135 | + Y + | шси | 295 | 110 | ALG | nra | 1110 | 300 | n19 | niu | 110 | пор | 305 | Ord | 1111 | GIU | | |
| | | αασ | atc | | caσ | caσ | ct.a | aca | | act | cca | cca | aac | | aσt | gcc | ttc | 1017 | |
| | | | | | | | | | | | | | | | | Ala | | 2.727 | |
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| | 141 | gcc | cca | gag | ttt | caa | caa | aca | gac | agt | ggc | aag | gtt | ctg | agc | aag | ctg | 1065 | |
| | 142 | Ala | Pro | Glu | Phe | Gln | Gln | Thr | Asp | Ser | Gly | Lys | Val | Leu | Ser | Lys | Leu | | |
| | 143 | 325 | | | | | 330 | | | | | 335 | | | | | 340 | | |
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| | 146 | Gln | Ala | Arg | Leu | Asp | Asp | Leu | Trp | Glu | Asp | Ile | Thr | His | Ser | Leu | His | | |
| | 147 | | | | | 345 | | | | | 350 | | | | | 355 | | | |
| | | | | | | | | | | | | tgag | gato | ta c | cctg | cccag | 13 | 1163 | |
| | | Asp | Gln | Gly | | Ser | His | Leu | Gly | _ | Pro | | | | | | | | |
| | 151 | | | | 360 | | | | | 365 | | | | | | | | - 1222 | |
| | | | | | - | - | - | | _ | | | | | _ | | | cagtc | | |
| | | | | | | | | | | | | | | | | | cacca: | | |
| | | | - | | | _ | | | - | | | | | | | - | ttac | | |
| | | | | - | _ | | | - | | | | | | | | | ctgc | | |
| | | | | - | | | | - | | | | | | | | | ctagt | | • |
| | | _ | | - | | - | | | | | | | | | | | gtctc | | |
| | | | | | | | | | | | | | | | | | , ggga | | |
| | | | | | | | | | | | | | | | | | iggtg | | |
| W> | 171 | gggd | tggg | gat a | agag | gaggg | jc ag | gagco | cate | j tti | tctg | jaca | taac | tcta | aca | cctar | ataa | g 1763 X | |
| | 173 | ggad | ctgaa | acc o | cttc | caact | g c | gggag | gctco | e tta | aaaco | ctt | ctgg | ggag | ca | taety | 9999 | c 1823 | |
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| | | <210 | | | | | | | | | | | | | | , I | | J | |
| | | <211 | | | | 56 | | | | 4 | 蚌 | | | | n | met | in | umerate un ku | ound |
| | | <212 | | | | 77 | | | _ | 430 | | | | | | | | , ha | |
| | | <213 <220 | | | | HOM | o sap | piens | 5 | | | | | | | | مون | 1 | · la ' |
| | | <221 | | | | mie | r fea | ature | . | | | | | | ., | المذار | | DNA chot | 170 |
| | | <222 | | | | | | | | | | | | £ | ۴ ز | No. | ded | of the whole of with we have | |
| | | <223 | | | | | | | | or c | or o | or | t.) | 1/2 | 0 6 | | ر ور | WWW THE | |
| | | <400 | | | | | | , , , | | | | , | | سنة إ | سد | بمحسيه | v | interior | |
| | | | | | | | Ala | Val | Leu | Thr | Trp | Ala | Leu | Ala | Leu | Leu | Ser | | |
| | 191 | | | | | 5 | | | | | 10 | | | | | 15 | | | |
| | 194 | Ala | Phe | Ser | Ala | Thr | Gln | Ala | Arg | Lys | Gly | Phe | Trp | Asp | Tyr | Phe | Ser | | |
| | 195 | | | | 20 | | | | | 25 | | | | | 30 | | | | |
| | 198 | Gln | Thr | Ser | Gly | Asp | Lys | Gly | Arg | Val | Glu | Gln | Ile | His | Gln | Gln | Lys | | |
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| | | Met | | Arg | Glu | Pro | Ala | | Leu | Lys | Asp | Ser | | Glu | Gln | Asp | Leu | | |
| | 203 | | 50 | | | _ | | 55 | | _ | _ | | 60 | | | | | | |
| | | | Asn | Met | Asn | Lys | | Leu | Glu | Lys | Leu | | Pro | Leu | Ser | Gly | | | |
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* not location 1798 is not enumerated in fields 221, 222 and 223.

Input Set : A:\35915a.seq.txt

Output Set: N:\CRF3\10162001\1835996.raw

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| 214 | Gln | Glu | Glu | Leu | Glu | Glu | Val | Lys | Ala | Arg | Leu | Gln | Pro | Tyr | Met | Ala | |
| 215 | | | | 100 | | | | | 105 | | | | | 110 | | | |
| 218 | Glu | Ala | His | Glu | Leu | Val | Gly | Trp | Asn | Leu | Glu | Gly | Leu | Arg | Gln | Gln | |
| 219 | | | 115 | | | | | 120 | | | | | 125 | | | | |
| 222 | Leu | Lys | Pro | Tyr | Thr | Met | Asp | Leu | Met | Glu | Gln | Val | Ala | Leu | Arg | Val | |
| 223 | | 130 | | _ | | | 135 | | | | | 140 | | | _ | | |
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| | 145 | | | | | 150 | | , | | | 155 | | - | | _ | 160 | |
| 230 | Gln | Leu | Leu | Glv | Glv | Val | Asp | Glu | Ala | Trp | Ala | Leu | Leu | Gln | Glv | | |
| 231 | | | | 2 | 165 | | | | | 170 | | | | | 175 | | |
| | Gln | Ser | Ara | Val | | His | His | Thr | Glv | | Phe | Lvs | Glu | T.eu | | His | |
| 235 | 0111 | 001 | **** 9 | 180 | , 41 | 1110 | 1110 | | 185 | -11- 9 | 1 | 275 | 014 | 190 | 1110 | 1110 | |
| | Pro | Тиг | λla | | Ser | T.au | 17 = 1 | Ser | | Tla | G1 v | λνα | Hic | | Gln | C111 | |
| 239 | | 1 Y T | 195 | Gru | Jei | цец | Val | 200 | GTA | 116 | Gry | пта | 205 | val | GIII | GIU | |
| | | uic | | co. | 17-1 | λ1 ¬ | Dro | | 71- | Dro | 71- | cor | | 71- | 7 ~~ | Tou | |
| | | 210 | AIG | 261 | vaı | MIA | 215 | His | Ala | PIO | Ата | | PIO | мта | Ary | пец | |
| 243 | | | Crro | W- 1 | Cln | 17a 1 | | Ser | 7 m ~ | T | T 011 | 220 | T 0 | T | 710 | T *** | |
| | | AIG | Cys | vai | GIII | | ьeu | ser | Arg | гуу | | THE | теп | цуѕ | Ald | - | |
| | 225 | T | 774 | 7.1. | 3 | 230 | 61 m | G1 | 3 | T | 235 | a 1 | T | 3 | a1 | 240 | |
| | Ата | Leu | HIS | Ата | | тте | GII | Gln | Asn | | Asp | GIN | ьeu | Arg | | GIU | |
| 251 | _ | _ | _ | - 1 | 245 | | ~ 3 | _, | | 250 | | | | | 255 | _ | |
| | | Ser | Arg | | Phe | Ala | Gly | Thr | | Thr | Glu | Glu | GLY | | Gly | Pro | |
| 255 | | _ | | 260 | _ | _ | | | 265 | _ | | _ | _ | 270 | | | |
| | Asp | Pro | | | Leu | Ser | Glu | Glu | Val | Arg | Gln | Arg | | Gln | Ala | Phe | |
| 259 | _ | | 275 | | _ | _ | | 280 | | | | | 285 | | | _ | |
| | _ | | Asp | Thr | Tyr | Leu | | Ile | Ala | Ala | Phe | | Arg | Ala | Ile | Asp | |
| 263 | | 290 | 1 | | | | 295 | | | _ | | 300 | _ | _ | _ | | |
| | | GLu | Thr | GLu | GLu | | Gin | Gln | GIn | Leu | | Pro | Pro | Pro | Pro | | |
| | 305 | | | | | 310 | _ | | | _ | 315 | | | | | 320 | |
| | His | Ser | Ala | Phe | | Pro | Glu | Phe | Gln | | Thr | Asp | Ser | Gly | | Val | |
| 271 | _ | | | | 325 | _ | | | | 330 | | | | | 335 | | |
| | Leu | Ser | Lys | | Gln | Ala | Arg | Leu | | Asp | Leu | Trp | Glu | | Ile | Thr | |
| 275 | | | | 340 | | | | | 345 | | | | | 350 | | | |
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| | <221 | | | | | | | | | | | | | | | | |
| | | | | | (181 | L)(| (1146 | 5) | | | | | | | | | |
| | <400 | | | | | | | | | | | | | | | | |
| 292 | gcca | aggag | gcc a | atgt | gggtt | t tt | ctag | ggaad | caa | aato | cact | tccc | ggaa | att g | gacca | actgg | 60 |
| 294 | taga | actc | gcc t | tagag | gggga | aa go | catte | gtgto | cta | gtt | gagg | ctaa | cagt | ca | gtato | ccagcc | 120 |
| | | | | | | | | | | | | | | | | aggagg | 180 |
| 298 | atg | gga | tcc | tgg | gtg | cag | ctc | atc | aca | agc | gtc | ggg | gtg | cag | caa | aac | 228 |
| 299 | Met | Gly | Ser | Trp | Val | Gln | Leu | Ile | Thr | Ser | Val | Gly | Val | Gln | Gln | Asn | |
| | | | | | | | | | | | | | | | | | |



Input Set : A:\35915a.seq.txt

Output Set: N:\CRF3\10162001\1835996.raw

| 300 | 1 | | | | 5 | | | | | 10 | | | | | 15 | | |
|-----|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|-----|
| | | cca | aac | taa | aca | gtg | act | ασa | caq | | caa | σaa | aaσ | aaa | | ttc | 276 |
| | | | | | | Val | | | | | | | | | | | |
| 304 | | | 1 | 20 | | | | 1 | 25 | | | | -1- | 30 | 5 | | |
| | act | αaa | σaa | | att | gaa | tac | ttc | | aaσ | aaa | att | agc | cca | ata | cat | 324 |
| | | - | _ | _ | | Glu | | | _ | _ | | _ | _ | | | | |
| 308 | | | 35 | | | | -1- | 40 | | -1- | -1- | | 45 | | | | |
| | cta | aaa | | cta | cta | act | agc | | αаа | acc | taa | ааσ | | ttc | at.a | cat. | 372 |
| | - | | | | | Thr | | | | | | | | | | | |
| 312 | Lou | 50 | | | | | 55 | | 014 | | | 60 | 9 | | | 5 | |
| | ata | | αaa | tta | ccc | agg | | σaa | qca | gat | act | | tat | σaa | act | ′cta | 420 |
| | | - | - | _ | | Arg | _ | - | - | _ | - | | | - | - | _ | |
| 316 | | | | | | 70 | | | | • | 75 | | - | | | 80 | |
| | | aat | ctt | aca | cca | tat | ata | qct | att | qaq | qac | aaa | qac | atq | caq | caa | 468 |
| | | | | | | Tyr | | | | | | | | | | | |
| 320 | -4- | | | | 85 | -1- | | | | 90 | | | | | 95 | | |
| | aaa | σaa | caq | caq | ttt | agg | gag | taa | ttt | tta | aaa | qaq | ttt | cct | caa | atc | 516 |
| | | | | | | Arg | | | | | | | | | | | |
| 324 | | | | 100 | | | | - | 105 | | | | | 110 | | | |
| | aσa | taa | aaσ | | caq | gag | tcc | ata | _ | agg | ctt | cat | atic | | qca | aat | 564 |
| | _ | | - | | _ | Glu | | | - | | | - | _ | | _ | | |
| 328 | 5 | | 115 | | | | | 120 | | | | | 125 | | | | |
| | σασ | att | αaa | ааσ | atc | cac | aσa | | tac | atc | atc | acc | aat | ata | ata | tct | 612 |
| | | | - | | | His | | | | | | | | | | | |
| 332 | | 130 | | -1- | | | 135 | 1 | - 4 | | | 140 | | | | | |
| | aac | | act | aac | atc | ctg | tct | atc | att | qqc | att | atq | tta | qca | cca | ttt | 660 |
| | | | | | | Leu | | | | | | | | | | | |
| | 145 | | | 1 | | 150 | | | | 1 | 155 | | | | | 160 | |
| | | σca | aaa | cta | agc | ctg | aσc | att | act | αca | act | aaa | qta | aaa | cta | qqa | 708 |
| | | | | | | Leu | | | | | | | | | | | |
| 340 | | | . – 2 | | 165 | | _ | | | 170 | | - | | - | 175 | - | |
| | ata | qca | tct | qcc | acq | gct | qqq | atc | qcc | tcc | agc | atc | ata | gag | aac | aca | 756 |
| | | | | | | Ãla | | | | | | | | | | | |
| 344 | | | | 180 | | | - | | 185 | | | | | 190 | | | |
| 346 | tac | aca | agg | tca | qca | gaa | ctc | aca | qcc | agc | agg | ctg | act | qca | acc | agc | 804 |
| | | | | | | Ğlu | | | | | | | | | | | |
| 348 | • | | 195 | | | | | 200 | | | _ | | 205 | | | | |
| 350 | act | gac | caa | ttg | gag | gca | tta | agg | gac | att | ctg | cat | gac | atc | aca | ccc | 852 |
| | | _ | | _ | | Ala | | | - | | _ | | _ | | | | |
| 352 | | 210 | | | | | 215 | _ | - | | | 220 | - | | | | |
| 354 | aat | gtg | ctt | tcc | ttt | gca | ctt | gat | ttt | gac | gaa | gcc | aca | aaa | atg | att | 900 |
| | | | | | | Āla | | | | | | | | | | | |
| | 225 | | | | | 230 | | - | | - | 235 | | | - | | 240 | |
| 358 | gcg | aat | gat | gtc | cat | aca | ctc | agg | aga | tct | aaa | gcc | act | gtt | gga | cgc | 948 |
| | | | | | | Thr | | | | | | | | | | | |
| 360 | | | - | | 245 | | | _ | _ | 250 | - | | | | 255 | - | |
| 362 | cct | ttg | att | gct | tgg | cga | tat | gta | cct | ata | aat | gtt | gtt | gag | aca | ctg | 996 |
| | | | | | | Arg | | | | | | | | | | | |
| 364 | | | | 260 | _ | - | - | | 265 | | | | | 270 | | | |
| | | | | | | | | | | | | | | | | | |



VERIFICATION SUMMARY
PATENT APPLICATION: US/09/835,996

DATE: 10/16/2001 TIME: 15:43:13

Input Set : A:\35915a.seq.txt

Output Set: N:\CRF3\10162001\1835996.raw

L:22 M:270 C: Current Application Number differs, Replaced Current Application No L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:22 M:271 C: Cuffent Filling Date differs, Replaced SE2 L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 L:1373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 L:1385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 L:1393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 D:1393 M:34 L:1572 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13 L:1572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:1580 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13 L:1580 M:341 W: (46) "n" or "Xaa" used; for SEQ ID#:13 L:1592 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13 L:1592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:2747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 L:3139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 L:6760 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:34 L:6760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 L:6911 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:36 L:6911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 L:7554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44